OPEN FILE REPORT 79-102 UNITED STATES YAGER BUTTE QUADRANGLE DEPARTMENT OF THE INTERIOR **PLATE 12 OF 43** MONTANA-POWDER RIVER CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) GEOLOGICAL SURVEY 4775 II SE (COLEMAN DRAW) OPEN-FILE REPORT R. 45 E. R. 46 E. This report has not been edited for conformity with 12 9 10 11 12 U.S. Geological Survey editorial standards or stratigraphic nomenclature. 13 **EXPLANATION** ----100----17 18 OVERBURDEN ISOPACH—Showing thickness of over-14 16 13 15 burden, in feet, from the surface to the top of the coal bed. Overburden isopachs within the stripping limit are omitted where they are too close to a mining-ratio contour for map readability. Isopach interval 100 feet (30.5 m).BOUNDARY OF COAL 5 FEET OR MORE THICK— 24 Drawn along the outcrop of coal bed and/or the inferred contact between burned and unburned coal and/or the 5-foot coal isopach. Arrows point toward area of coal 5 feet or more thick. DRILL HOLE-Showing thickness of overburden, in feet, 20 22 23 19 21 24 from the surface to the top of the coal bed. 50 MINING-RATIO CONTOUR—Number indicates cubic yards of overburden per short ton of recoverable coal by surface-mining methods. Contours shown only in areas suitable for surface mining within the stripping limits. 25 To convert feet to meters, multiply feet by 0.3048. To convert yds³/ton to m³/metric ton, multiply yds³/ton by 27'30" 30 29 28 27 26 T. 4 S. NOTE: Where no mining-ratio contour is shown in the outliers of Reserve Base coal, the mining-ratio value is less than 10. T. 5 S. T. 5 S. 12 25 13 17 18 16 23 20 19 21 22 24 30 28 27 29 (GOODSPEED BUTTE) 2'30" 106°00′ Base map from U.S. Geological Survey, 1967 Compiled in 1977 MONTANA UTM GRID AND 1967 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

COAL RESOURCE OCCURRENCE MAP OF THE YAGER BUTTE QUADRANGLE, POWDER RIVER COUNTY, MONTANA

BY
COLORADO SCHOOL OF MINES RESEARCH INSTITUTE
1979

PLATE 12

OVERBURDEN ISOPACH AND MINING-RATIO

MAP OF THE LOWER SPLIT

OF THE COOK COAL BED